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NOTICE OF ALLOWANCE AND FEE(S) DUE

34872

7590

04/02/2008

Basell USA Inc.
Delaware Corporate Center II
2 Righter Parkway, Suite #300
Wilmington, DE 19803

EXAMINER

TESKIN, FRED M

ART UNIT PAPER NUMBER

1796

DATE MAILED: 04/02/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/589,591	08/16/2006	Gabriele Mei	FE 6165 (US)	2714

TITLE OF INVENTION: METHOD FOR CONTROLLING THE POLYMER FLOW IN A POLYMERIZATION PROCESS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/02/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) 34872 7590 04/02/2008				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
34872 Basell USA In Delaware Corpo 2 Righter Parkw	/2008		Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.						
Wilmington, DE	E 19803								(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CON	FIRMATION NO.
10/589,591 TITLE OF INVENTION	08/16/2006 N: METHOD FOR CONT	TROLLING THE POLYM	Gabriele Mei MER FLOW IN A POI	LYM	ERIZATION PRO		FE 6165 (US)		2714
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nonprovisional	NO	\$1440	\$300		\$0		\$1740		07/02/2008
EXAN	MINER	ART UNIT	CLASS-SUBCLASS	3					
TESKIN, FRED M 1796			526-088000						
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.		" Indication form led. Use of a Customer	(1) the names of u or agents OR, alter (2) the name of a sregistered attorney 2 registered patent listed, no name will the DATENIX (spines)	nativ single or a attor ll be	rely, e firm (having as a gent) and the nam neys or agents. If a printed.	memb es of u	er a 2		
PLEASE NOTE: Un	less an assignee is ident th in 37 CFR 3.11. Comp	A TO BE PRINTED ON iffied below, no assignee oletion of this form is NO	data will appear on t	he pa	ntent. If an assign			cumen	nt has been filed for
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	atus (from status indicated as SMALL ENTITY state		☐ b Applicant is no	lone	ver claiming SMAI	LEN	ΓΙΤΥ status. See 37 CF	₹ R 1 25	l(a)(2)
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Authorized Signature			Date						
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10/589,591 08/16/2006		Gabriele Mei	FE 6165 (US)	2714	
34872 75	90 04/02/2008	EXAMINER			
Basell USA Inc.			TESKIN,	FRED M	
Delaware Corporat		ART UNIT	PAPER NUMBER		
2 Righter Parkway, Suite #300 Wilmington, DE 19803			1796 DATE MAILED: 04/02/200	8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 169 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 169 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)		
	10/589,591	MEI ET AL.		
Notice of Allowability	Examiner	Art Unit		
	Fred M. Teskin	1796		
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS	
1. This communication is responsive to				
2. ☐ The allowed claim(s) is/are <u>1-10</u> .				
 Acknowledgment is made of a claim for foreign priority ur a)	been received. been received in Application No		ition from the	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the re-	quirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			IOTICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	et be submitted.			
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-9	948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the O	ffice action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			back) of	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			Note the	
 Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08),	5. Notice of Informal Page 1. Interview Summary Paper No./Mail Date 7. Examiner's Amendman 8. Examiner's Stateme 9. Other /Fred M Teskin/Primary Examiner, Art Unit	(PTO-413), e : nent/Comment nt of Reasons for Allo	owance	

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

Claims 1-10 are allowable over the closest prior art to EP 1012195 (cited in the Search Report) and US 5728353 (Govoni).

The claimed invention is a method for controlling the flowability of polymer particles comprising: feeding a liquid stream continuously into a polymerization reactor comprising a polymer bed at a mass flow rate per unity of reactor surface higher than 30 Kg/h-m², wherein the polymer particles comprise a polymer and a density of solid higher than 80% of a poured bulk density of the polymer, where the density of solid is the Kg of polymer per m³ of reactor occupied by the polymer, and the polymer particles flow downward in a densified form inside the polymerization reactor, wherein at least one monomer is gas phase polymerized in the presence of a polymerization catalyst, the monomer comprising fresh monomers.

EP '195 discloses a process for catalytic polymerization in the gas phase carried out in the presence of two interconnected polymerization zones, wherein growing polymer particles flow upward through one of the polymerization zones (riser) under fast fluidization conditions, leave said riser and enter another polymerization zone (downcomer) through which they flow downward under the action of gravity, leave said downcomer and are reintroduced into the riser, thus establishing a circulation of polymer between the riser and the downcomer. It is stated that, generally, in the downcomer the growing polymer particles flow downward in a more or less densified form and, thus, high values of density of the solid can be reached, which can approach

the bulk density of the polymer ([0016]). According to a preferred embodiment of EP '195, introduction of a gas and/or liquid mixture of different composition into the downcomer is such to establish a net gas flow upward at the upper limit of this polymerization zone. The established flow of gas upward has the effect of preventing the gas mixture present in the riser from entering the downcomer ([0018]).

Page 3

EP '195 does not, however, teach or in any way suggest that the flowability of polymer particles may be controlled by continuously feeding a liquid stream into the polymerization reactor at a mass flow rate higher than 30 Kg/h-m² as specified in present claim 1.

Govoni describes a process wherein olefins are polymerized in the presence of a catalyst capable of producing polymers having a poured bulk density of greater than 0.35 g/cm³ and comprising a specified reaction product, by operating in at least two interconnected fluidized bed or mechanically agitated reactors wherein different concentrations of a molecular weight regulator are present (col. 7, ll. 8+). While mention is made of the possibility of achieving high mass flow rates of the polymer (*Id.*, ll. 40-45), the disclosure of Govoni fails to teach or suggest controlling the flowability of polymer particles by continuously feeding a liquid stream into the polymerization reactor at a mass flow rate as specified in present claim 1.

Thus, the closest prior art fails to describe, teach or fairly suggest the applicants' claimed method for controlling the flowability of polymer particles. Claims 1-10 are therefore deemed to define allowable subject matter and passed to issue.

Art Unit: 1796

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication should be directed to Examiner F. M. Teskin whose telephone number is (571) 272-1116. The examiner can normally be reached on Monday through Thursday from 7:00 AM - 4:30 PM, and can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be reached on (571) 272-1114. The appropriate fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <u><http://pair-direct.uspto.gov></u>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Fred M Teskin/

Primary Examiner, Art Unit 1796